

# MATERIAL SAFETY DATA SHEET

## FOR TANTALUM ALLOYS

ISSUED DATE: DECEMBER 15, 2003

### 1. COMPOSITION INFORMATION

CHEMICAL: TANTALUM  
SYNOYM: Ta  
FAMILY: REFRACTORY METAL  
CAS REGISTER: 7440-25-7

### 2. HAZARDS IDENTIFICATION

CLASS NAME OF HAZARDOUS CHEMICAL: N/A  
PHYSICAL AND CHEMICAL HAZARDS: N/A  
ADVERSE HUMAN HEALTH EFFECT: N/A  
ENVIRONMENTAL EFACTS: N/A

### 3. FIRST AID AND MEASURES

EYE CONTACT: RINSE WITH WATER  
SKIN CONTACT: WASH WITH SOAP AND WATER  
INHALATION: REFRESH WITH FRESH AIR  
INGESTION: VOMIT AND OBTAIN MEDICAL ATTENTION

### 4. FIRE-FIGHTING MEASURES

EXTUNGISHING: N/A  
SPECIFIC HAZARD MEASURES: N/A

### 5. ACCIDENTAL RELEASE MEASURES

WIPE OFF WITH CLOTH

### 6. HANDLING AND STORAGE

HANDLING: AFTER CHECKING THE BOXES FOR DAMAGES AND LEAKES,  
LOAD WITH CARE TO AVOID SHOCK, OVERTURN AND DROPPING  
STORAGE: STORE AWAY FROM OXIDIZERS AND MINERAL ACIDS

### 7. EXPLOSION CONTROL/PERSONAL PROTECTION

CONTROL PARAMETERS: N/A  
ENGINEERING MEASURES: N/A  
PERSONAL PROTECTION EQUIPMENT: N/A  
RESPIRATORY PROTECTION: N/A  
EYE PROTECTION: CHEMICAL GOGLES  
HAND, SKIN AND BODY PROTECTION: HAND: RUBBER GLOVES  
CLOTHING: N/A  
FOOTWARE: RUBBER BOOTS

### 8. PHYSICAL AND CHEMICAL PROPERTIES

COLOR: GRAY/SILVER  
MOLECULAR WEIGHT: 180.95  
STATE: TUBE  
MELTING POINT: 5426°F (2997°C)  
BOILING POINT: 9797°F (5425°C)  
VAPOR PRESSURE: N/A  
VOLATILE: N/A  
DENSITY: 16.654  
INITIAL BOILING: HIGH (REFER TO BOILING POINT)  
SOLUBILITY IN WATER: N/A

9. PHYSICAL HAZARD (STABILITY AND REACTIVITY)

FLASHING POINT: N/A  
AUTOIGNITION: N/A  
UPPER AND LOWER EPLOSION POINT: N/A  
FLAMMABILITY: N/A  
SPONTANEOUS COMBUSTIBILITY: N/A  
REACTIVITY: N/A  
OXIDATION: N/A  
SELF-REACTIVITY: N/A  
STABILITY REACTIVITY: STABLE IN GENERAL CONDITIONS

10. TOXICOLOGICAL INFORMATION

CORROSIVE AND IRRITANT PROPERTIES: N/A  
ALLERGENIC AND SENSITIZING EFFECTS: SLIGHTLY IRRIGATIVE TO HUMAN  
SKIN, EYES AND MUCOUSMEMBRANES  
ACUTE TOXICITY: N/A  
SUB-CHRONIC EFFECTS: N/A  
CARCINAGENIC EFFECTS: N/A  
MUTAGENIC EFFECTS: N/A  
EFFECTS ON REPRODUCTIVITY SYSTEM: N/A  
TERATOGENIC EFFECTS: N/A

11. ECOLOGICAL INFORMATION

BIODEGRADABILITY: N/A  
BIOACCUMULATION: N/A  
FISH TOXICITY: N/A  
OTHER: N/A

12. DISPOSAL CONSIDERATION

IMPROPER DISPOSAL MAY BE ILLEGAL. REFER TO THE APPLICABLE  
FEDERAL, STATE AND LOCAL REGULATIONS

13. TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: NOT REGULATED BY THE MODE OF  
TRANSPORATION  
DOT PSN CODE: ZZZ  
SYMBOL: N/R  
DOT PSN MODIFIER:  
HAZARD CLASS: N/R

UN ID NUMBER:	N/R
DOT PACKING GROUP:	N/R
LABEL:	N/R
SPECIAL PROVISION(S):	N/R
PACKING EXCEPTION:	N/R
NON-BULK PACKAGING:	N/R
BULK PACKAGING:	N/R
MAX QUNATITY IN PASSENGER AREA:	N/R
MAX QUANTITY IN CARGO AREA:	N/R
STOW IN VESSEL REQUIREMENTS:	N/R
REQUIREMENTS WATER/SP/OTHER:	N/R
LAND TRANSPORT ADR/RID &GGVS/GGVE:	N/R
SEA TRANSPORT IMDG/GGVSee:	N/R
AIR TRANSPORT ICAO-TI & IATA/DGR:	N/R
TRANSPORT/FURTHER INFORMATION:	NOT A HAZARDOUS PRODUCT PER THE TRANSPORT CLASSIFICATION
14. REGULATORY INFORMATION:	N/A
15. OTHER INFORMATION:	N/A

Information mentioned here complies with data shown in various technical publications. To take the required safety handling measures, the user should decide to apply the information on his/her responsibility.

Information mentioned here were prepared based on the latest data obtained by our investigation at the time. It is subject to change with the amendment of laws and regulations, and the publication of new results of toxic test and the like.

\*\*\*\*\*End of Record\*\*\*\*\*